

University of Groningen

## Studies on Porosity Control and Stabilization of Mesoporous Silicas and Aluminas

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# Stellingen

Behorende bij het proefschrift:

## STUDIES ON POROSITY CONTROL AND STABILIZATION OF MESOPOROUS SILICAS AND ALUMINAS

Lidia López Pérez

1. It is possible to obtain a perfect MCM-41 mesophase but full structural preservation and minimum particle agglomeration after template removal is difficult.  
*Chapter 2 of this Thesis*
2. The hydrothermal stability of MCM-41 is not only affected by hydrolysis but capillary forces contribute as well.  
*Chapter 3 of this Thesis*
3. The claim “*solvent extraction of as-synthesized SBA-15 using ethanol at 78°C allows the organic copolymer to be completely removed without decomposition, permitting its recovery and reuse*”, by D.Y. Zhao, J. Feng, Q. Huo, N. Melosh, G. H. Fredrickson, B. F. Chmelka, G. D. Stucky. *Science* **279** (1998) 548, is not correct and needs a corrigendum from the authors.
4. Reading and reworking experimental procedures of alumina synthesis is sometimes like reading gossip magazines.  
*C. Marquez-Alvarez, N. Zilkova, J. Perez-Pariente, J. Cejka, Catal. Rev. Sci. Eng. 50 (2008) 222.*
5. Removal of the template in a liquid-phase calcination by means of a high-boiling solvent is an exciting development.  
*V. Cauda, C. Argyo, D. G. Piercey, T. Bein. J. Am. Chem. Soc. 133 (2011) 6484.*
6. High surface area is not always a prerequisite for having a good catalyst.  
*M. Hara, T. Yoshida, A. Takagaki, T. Takata, J.N. Kondo, S. Hayashi, K. Domen, Ang. Chem, Int. ed. 43 (2004) 2955.*
7. Living in the Netherlands has been like an esthetic operation for a Mexican woman, especially in winter times.
8. There is a general misunderstanding between the composition and texture of Mexican’s tacos, enchiladas and burritos.